

**SECRET**  
NOT RELEASABLE TO FOREIGN NATIONALS

The Files

26 September 1957

[REDACTED]

25X1A9A

Conference Report - National Security Agency,  
Task Order 5

[REDACTED]

25X1

1. A conference was held on 18 September 1957 at the National Security Agency to discuss the cryptographic equipment to be used with the High-Speed Sub-Base Communications equipment. Those present at the conference were:

[REDACTED]

NSA  
NSA  
NSA

25X9A8

[REDACTED]

[REDACTED]

CIA  
CIA

25X1A5A1  
25X1A9A

2. The [REDACTED] is to ship the Two AF-SAI-503 cryptographic devices used in the AS-4 development to NSA.

25X1A5A1

3. The equipment discussed at this conference is known as the KG-3, cryptographic system. This is a miniaturized version of the KI-3 equipment but still using tubes. It is completely compatible with the KI-3. The KG-3 designation has been confused with the KI-4 nomenclature. The KI-4 is a field set cryptographic device and is not compatible with the KI-3 system.

4. The National Security Agency is obtaining two KG-3 systems only from their development program. Arrangements are being made to obtain one of these KG-3 systems on a loan basis for use with the High-Speed Sub-Base Station, AS-5 for enciphering and deciphering messages.

5. Development of a transistorized version of the KG-3 is planned by NSA. Efforts will be made to fund the purchase of such a system after its development. The development period is estimated at 12 months. The [REDACTED] is to produce the new system.

25X1A5A1

6. It has been established that the AS-5 system will be used in simplex receive operation only, due to the antenna switching problem and the RG-3 equipment. The transmit or enciphering portion of the RG-3 consists of a transmit unit and an alarm unit. The receive or deciphering portion uses only one unit which incidentally is similar to the transmit unit. The transmit unit will use a keystream into which the signal or message will be injected. An operational check is made by the alarm unit with the transmit and receive units in the transmit position.

25X1A9A

OC-E/R&D-EP/PCV:wlj (26 September 1957)  
cc: R&D Subject File  
    ✓ Monthly Report (2)  
      R&D Lab  
      R&D Chrono  
      EP Chrono